

Instructions for Using the Plan Review Crosswalk for Review of Local Mitigation Plans

Attached is a Plan Review Crosswalk based on the *Multi-Hazard Mitigation Planning Guidance Under the Disaster Mitigation Act of 2000*, published by FEMA, dated March 2004. This Plan Review Crosswalk is consistent with the *Disaster Mitigation Act of 2000* (P.L. 106-390), enacted October 30, 2000 and *44 CFR Part 201 – Mitigation Planning, Interim Final Rule* (the Rule), published February 26, 2002.

SCORING SYSTEM

N – Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a summary score of "Satisfactory." A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing.

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, reviewers may want to put an N/A in the prerequisite box for single jurisdiction plans.

States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation actions are found at the end of the Plan Review Crosswalk.

The example below illustrates how to fill in the Plan Review Crosswalk.

Example

Assessing Vulnerability: Overview

Requirement §201.6(c)(2)(ii): [The risk assessment *shall* include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description *shall* include an overall summary of each hazard and its impact on the community.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?	Section II, pp. 4-10	The plan describes the types of assets that are located within geographically defined hazard areas as well as those that would be affected by winter storms.		✓
B. Does the plan address the impact of each hazard on the jurisdiction?	Section II, pp. 10-20	The plan does not address the impact of two of the five hazards addressed in the plan. Required Revisions: • Include a description of the impact of floods and earthquakes on the assets. Recommended Revisions: • This information can be presented in terms of dollar value or percentages of damage.	✓	
SUMMARY SCORE			✓	

Jurisdiction: **LAKE COUNTY, MONTANA**

Local Mitigation Plan Review and Approval Status

Jurisdiction: Lake County	Title of Plan: Pre-Disaster Mitigation Plan	Date of Plan: December 2005
Local Point of Contact: Steve Stanley	Address: 106 4 th Avenue East Polson, MT 59860-2173	
Title: DES Coordinator		
Agency: Lake County		
Phone Number: 406-883-7253	E-Mail: lakeoem@digisys.net	

State Reviewer: Kent Atwood	Title: SHMO	Date: January 25, 2006
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FEMA Reviewer: Ken Crawford Wade Nofziger Jennifer Fee	Title: Mitigation Specialist Mitigation Specialist Planner	Date: February 8, 2006 March 3, 2006 March 16, 2006
Date Received in FEMA Region VIII	January 30, 2006	
Plan Not Approved		
Plan Approved	XXX	
Date Approved	March 27, 2006	

Jurisdiction:	NFIP Status*			
	Y	N	N/A	CRS Class
1. Lake County	X			
2. City of Polson	X			
3. City of Ronan	X			
4. Town of St. Ignatius	X			
5. [ATTACH PAGE(S) WITH ADDITIONAL JURISDICTIONS]				

* Notes:

Y = Participating

N = Not Participating

N/A = Not Mapped

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

SCORING SYSTEM

Please check one of the following for each requirement.

N – Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Prerequisite(s) (Check Applicable Box)	NOT MET	MET
Adoption by the Local Governing Body: §201.6(c)(5) OR		X
Multi-Jurisdictional Plan Adoption: §201.6(c)(5) AND		X
Multi-Jurisdictional Planning Participation: §201.6(a)(3)		X
Planning Process	N	S
Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)		X
Risk Assessment	N	S
Identifying Hazards: §201.6(c)(2)(i)		X
Profiling Hazards: §201.6(c)(2)(i)		X
Assessing Vulnerability: Overview: §201.6(c)(2)(ii)		X
Assessing Vulnerability: Identifying Structures: §201.6(c)(2)(ii)(A)	X	
Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)	X	
Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)	X	
Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)		X

Mitigation Strategy

Local Hazard Mitigation Goals: §201.6(c)(3)(i)
 Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)
 Implementation of Mitigation Actions: §201.6(c)(3)(iii)
 Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)

N	S
	X
	X
	X
	X

Plan Maintenance Process

Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(i)
 Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)
 Continued Public Involvement: §201.6(c)(4)(iii)

N	S
	X
	X
	X

Additional State Requirements*

Insert State Requirement
 Insert State Requirement
 Insert State Requirement

N	S

LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

☐

PLAN APPROVED

☒

*States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

See Reviewer's Comments

PREREQUISITE(S)

Adoption by the Local Governing Body

Requirement §201.6(c)(5): [The local hazard mitigation plan *shall* include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the local governing body adopted the plan?		N/A		
B. Is supporting documentation, such as a resolution, included?		N/A		
SUMMARY SCORE				N/A

Multi-Jurisdictional Plan Adoption

Requirement §201.6(c)(5): For multi-jurisdictional plans, each jurisdiction requesting approval of the plan *must* document that it has been formally adopted.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the plan indicate the specific jurisdictions represented in the plan?	Page 1	These included Lake County, the cities of Polson, Ronan, and the Town of St. Ignatias.		X
B. For each jurisdiction, has the local governing body adopted the plan?	Appendix A	Each jurisdiction adopted the plan.		X
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	Appendix A	All resolutions were included in the plan.		X
SUMMARY SCORE				X

Multi-Jurisdictional Planning Participation

Requirement §201.6(a)(3): Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the plan describe how each jurisdiction	Page 4	Good detail on the planning process was provided.		X

participated in the plan's development?				
SUMMARY SCORE				X

PLANNING PROCESS: §201.6(b): *An open public involvement process is essential to the development of an effective plan.*

Documentation of the Planning Process

Requirement §201.6(b): *In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:*

- (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
- (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
- (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*

Requirement §201.6(c)(1): *[The plan **shall** document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a narrative description of the process followed to prepare the plan?	Pages 4 & 5	A very clear description of the planning process was provided. A narrative description of the planning process is well documented and includes copy of news release and sign-in sheets for all three public meetings. Recommended Revisions: The plan would be enhanced if meeting agendas and summaries were included.		X
B. Does the plan indicate who was involved in the planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	Pages 4 & 5 Appendix B	The planning process involved many people from several counties, state and federal agencies, three tribes and the public. Well done. The list of participants and the meetings are listed in Appendix B. Meeting sign-in sheets are included in the plan.		X
C. Does the plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	Pages 4 & 5 Appendix B	There were three public meetings conducted. They appear to have been well attended. Recommended Revisions: The plan would be enhanced if meeting agendas and summaries were included.		X
D. Was there an opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?	Pages 4 & 5 Appendix B	Many different agencies and entities participated in the planning process. This effort seems to be very extensive.		X

Jurisdiction: LAKE COUNTY, MONTANA

E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Pages 55 & 58	Several studies from various sources were used to provide data for the plan. These included GIS, DES, National Weather Service, historical newspaper articles, and interviewing local experts.		X
SUMMARY SCORE				X

RISK ASSESSMENT: §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

Identifying Hazards

Requirement §201.6(c)(2)(i): *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include a description of the types of all natural hazards that affect the jurisdiction? If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score. Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area.	Pages 6 – 32	<p>The plan identifies 25 hazards, not all natural, that were evaluated. The top three major hazards for the county are wildfires, severe winter storms, and rain/hail/wind events.</p> <p>Each hazard profile provides an excellent description of the hazard potentially impacting the county.</p> <p>The plan includes information for all identified hazards and in most cases the data used is more extensive than that found from readily available on-line resources with the exception of flooding and winter storms, . There were several events listed on SHELDUS that were not included in the plan. For more information refer to SHELDUS (www.sheldus.org).</p> <p>A Flood Insurance Study is available for Lake County, including incorporated cities of Polson and Roman. For more information refer to http://msc.fema.gov/.</p> <p>The plan indicates on page 20 that there are a total of 12 high hazard dams. The National Inventory of Dams appears to indicate that there are 13 dams in Lake County. Six of the Dams in Lake County, including Tabor, Mission, McDonald, Crow and Tabor North Dike, do not appear to have an Emergency Action Plan (EAP). The National Dam Safety Act requires that an emergency action plan (EAP) be completed for high hazard dams. Developing an EAP for these six dams</p>		X

		would be beneficial mitigation strategy. Please see http://crunch.tec.army.mil/nid/webpages/nid.cfm (introduction and download dam data) for National Dam Inventory information. Online EPA data suggests that there are no toxic release inventory sites in Lake County. Please see http://www.epa.gov/triexplorer/ for more information.		
SUMMARY SCORE				X

Profiling Hazards

Requirement §201.6(c)(2)(i): *[The risk assessment shall include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the plan?	Pages 6 – 32	Each natural hazard identifies locations within the county that were impacted. Good mapping.		X
B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?	Pages 6 – 32	Where data is available, the plan does a good job of showing the magnitude of past events.		X
C. Does the plan provide information on previous occurrences of each hazard addressed in the plan?	Pages 6 – 32	The plan does a good job of listing previous events. Previous occurrences of each type of hazard are addressed in pages 7-48. Appendix E lists past occurrences and includes: location, date, time, magnitude, Death, injuries, property damage and crop damage.		X
D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?	Pages 39 – 48	Using the best available data, the plan provides an excellent methodology to their analysis. Recommended Revisions: The plan presents good historic information although, some of the hazards, such as drought, do not appear to use past occurrences to estimate probability of future events. Note any data limitations for profiling hazards and include in the mitigation strategy actions for collecting the data to complete and improve future risk analysis efforts.		X

		For more information on profiling hazards, see Understanding Your Risks (FEMA 386-2), Step 2.		
SUMMARY SCORE				X

Assessing Vulnerability: Overview

Requirement §201.6(c)(2)(ii): *[The risk assessment **shall** include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?	Pages 39 – 48	The plan includes a section on vulnerability for each identified hazard. The plan includes excellent maps for all identified hazards, including stock values by census block, and a societal risk map. Vulnerable populations are also discussed in the plan; on Page 42 communities at risk to wildfire are listed. Table 3-8 discusses vulnerability in terms of dollar losses in relation to identified hazards.		X
B. Does the plan address the impact of each hazard on the jurisdiction?	Pages 39 – 48	The impacts of each hazard are documented to the best of available information. Previous occurrences of each type of hazard are addressed on pages 7-31. A list of past occurrences can be found in Appendix E and consists of detailed information including date, time, type, magnitude, death, injury, property damage, and crop damage.		X
SUMMARY SCORE				X

Assessing Vulnerability: Identifying Structures

Requirement §201.6(c)(2)(ii)(A): *The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?	Pages 49 – 50 Table 3.5, page 34 & Appendix C	The plan does include existing buildings, infrastructure and critical facilities. The critical facilities are separated by cities within the county and a map depicting stock values by census block is included. Although this is a great start, the plan must identify the type and number of existing buildings within each hazard area to satisfy this requirement. Recommended Revisions: For each hazard, identify the type and number of existing	X	

		<p>buildings, infrastructure, and critical facilities within each hazard area.</p> <p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</p>		
<p>B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?</p>	Page 36	<p>The plan discusses good growth for the county, but provides no details of where this is to occur or what type of construction. This section needs to be greatly improved for the five year update.</p> <p>Recommended Revisions for the five year update:</p> <p>For each hazard identify the type and number of future buildings, infrastructure, and critical facilities within each hazard area so that mitigation options can be considered and supported.</p> <p>Information on proposed buildings, infrastructure, and critical facilities, including planned and approved development, may be based on information in the comprehensive or land use plan and zoning maps.</p> <p>Describe the process or method used for identifying future buildings, infrastructure, and critical facilities.</p> <p>Note any data limitations for determining the type and numbers of future buildings, infrastructure, and critical facilities and include in the mitigation strategy actions for collecting the data to improve future vulnerability assessment efforts.</p> <p>For a discussion on identifying vulnerable structures and detailed inventories, see <i>Understanding Your Risks</i> (FEMA 386-2), Step 3, Worksheet #3a and #3b, Inventory Assets.</p> <p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</p>	X	
SUMMARY SCORE			X	

Assessing Vulnerability: Estimating Potential Losses

Requirement §201.6(c)(2)(ii)(B): *[The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan estimate potential dollar losses to vulnerable structures?	Pages 34 – 50	<p>The plan does a good job of identifying potential losses to critical facilities. They used HAZUS and GIS to illuminate losses throughout the county.</p> <p>Table 3-8 lists building dollar exposure and makes a connection to hazard types. The building dollar exposure is also separated out by all participating jurisdictions. The map on page 35 depicts the Building Stock Values by Census Block. Although this is a great start, future losses would have to be addressed to fully satisfy this requirement.</p> <p>Recommended Revisions for the five year update:</p> <p>Please include future dollar losses to vulnerable structures.</p> <p>Include, when resources permit, estimates for structure, contents, and function losses to present a full picture of the total loss for each building, infrastructure, and critical facility.</p> <p>Include a composite loss map to locate high potential loss areas to help the jurisdiction focus its mitigation priorities.</p> <p>Note any data limitations for estimating losses and include in the mitigation strategy actions for collecting the data to improve future loss estimate efforts.</p> <p>For a step-by-step method for estimating losses, see <i>Understanding Your Risks</i> (FEMA 386-2), Step 4.</p> <p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</p>	X	
B. Does the plan describe the methodology used to prepare the estimate?	Pages 34 - 50	<p>Building stock structure values were assigned to census blocks proportionally to population percentages. Critical facility values are from insurance records and tax assessments.</p> <p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</p>		X
SUMMARY SCORE			X	

Assessing Vulnerability: Analyzing Development Trends

Requirement §201.6(c)(2)(ii)(C): [The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe land uses and development trends?	Page 36	<p>This section does not delve into where the growth will occur, building codes, and enforcement issues that need to be addressed. Although population growth is discussed, it may be helpful to have more detailed projections in relation to identified hazard areas.</p> <p>Required Revisions:</p> <p>Please provide a discussion on land use and development trends, where it is happening, identify low risk areas, than the County can direct growth to the most viable option for development.</p> <p>Include population projections and growth in relation to identified hazard areas.</p> <p>Overlay a land use map with identified hazard areas.</p> <p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p>	X	
SUMMARY SCORE			X	

Multi-Jurisdictional Risk Assessment

Requirement §201.6(c)(2)(iii): For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	Pages 49 – 50 Tables 3-8 to 3-11	<p>The tables do a good job of assessing vulnerability by jurisdiction. It includes a summary of where risks vary by jurisdiction in the hazard profiles. The hazard evaluation discusses jurisdictions that are most susceptible to the identified hazard.</p> <p>Recommended Revision:</p>		X

		For the next update, prepare a summary of the various jurisdictions that describe only the risk that vary.		
SUMMARY SCORE				X

MITIGATION STRATEGY: §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

Local Hazard Mitigation Goals

Requirement §201.6(c)(3)(i): *[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards? (GOALS are long-term; represent what the community wants to achieve, such as "eliminate flood damage"; and are based on the risk assessment findings.)	Page 51	The plan identifies nine goals to reduce vulnerability to hazards.		X
SUMMARY SCORE				X

Identification and Analysis of Mitigation Actions

Requirement §201.6(c)(3)(ii): *[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?	Pages 51 – 52	The plan identifies a wide range of mitigation actions for the various hazards. All nine mitigation goals include mitigation objectives and actions that are directly related to the mitigation goals.		X
B Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?	Pages 51 – 52	Most of the proposed projects affect new, as well as existing structures and infrastructure. The plan includes one project that marginally addresses reducing effects of hazards on new buildings, which are to ID Wildfire and Urban interface risk areas. Recommended Revision:		X

		For the next update, consider incorporating into the mitigation strategy the potential role of land use and building codes in reducing losses to new buildings and infrastructure.		
C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?	Pages 51 – 52	Most of the proposed projects affect new, as well as existing structures and infrastructure.		X
SUMMARY SCORE				X

Implementation of Mitigation Actions

Requirement: §201.6(c)(3)(iii): *[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?)	Page 52	The plan has an interesting ranking matrix that they used. Projects were prioritized using a cost benefit matrix highlighting population and property impacted and cost. The results ranked projects as high, medium and low priority.		X
B. Does the mitigation strategy address how the actions will be implemented and administered ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)	Page 55	The implementation of the projects will be accomplished through the TERC/LEPC and administered by the DES Coordinator. Responsible departments, potential resources and timeframes are identified, using a matrix. This is a simple and effective way to present the information.		X
C. Does the prioritization process include an emphasis on the use of a cost-benefit review (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i>) to maximize benefits?	Pages 52 54	The plan does a good job of showing the cost-benefit review.		X
SUMMARY SCORE				X

Multi-Jurisdictional Mitigation Actions

Requirement §201.6(c)(3)(iv): *For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the plan include at least one identifiable action item for each jurisdiction requesting FEMA	Pages 52 54	At least one action item was identified for each jurisdiction.		X

approval of the plan?				
SUMMARY SCORE				X

PLAN MAINTENANCE PROCESS

Monitoring, Evaluating, and Updating the Plan

Requirement §201.6(c)(4)(i): [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)	Page 56	The plan is to be evaluated annually, or as required, and at the five year mark. The DES Coordinator is responsible to updating the plan, in coordination with the TERC/LEPC.		X
B. Does the plan describe the method and schedule for evaluating the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)	Page 56	See above.		X
C. Does the plan describe the method and schedule for updating the plan within the five-year cycle?	Page 56	See above.		X
SUMMARY SCORE				X

Incorporation into Existing Planning Mechanisms

Requirement §201.6(c)(4)(ii): [The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan?	Page 56	The county is developing a Comprehensive Growth Policy that will integrate many of the projects into it.		X
B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?	Page 55	The plan provides a list of other county activities through which these mitigation activities can integrate.		X
SUMMARY SCORE				X

Continued Public Involvement

Requirement §201.6(c)(4)(iii): *[The plan maintenance process **shall** include a] discussion on how the community will continue public participation in the plan maintenance process.*

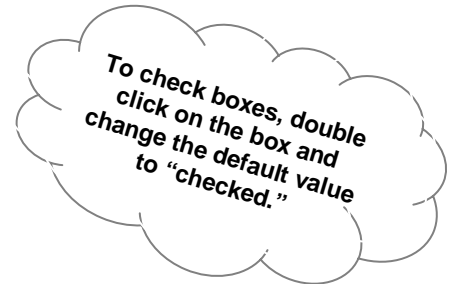
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	Page 57	Continued public participation is well documented in the plan. The public will have the opportunity to review and update the PDMP. Copies of the plan will be cataloged at all appropriate agencies and the public library. The existence of the plan and location will be publicized in the Tribal and County newspaper. A series of public meetings will be held prior to each two-year review and five-year update. The DES coordinator will be responsible for publicizing the meetings through newspapers and radio.		X
SUMMARY SCORE				X

Matrix A: Profiling Hazards

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

Matrix B: Assessing Vulnerability

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each requirement. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An "N" for any element of any identified hazard will result in a "Needs Improvement" score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Note: Receiving an N in the shaded columns will not preclude the plan from passing.

To check boxes, double click on the box and change the default value to "checked."

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Overall Summary Description of Vulnerability	B. Hazard Impact	A. Types and Number of Existing Structures in Hazard Area (Estimate)	B. Types and Number of Future Structures in Hazard Area (Estimate)	A. Loss Estimate	B. Methodology
	Yes						
Avalanche	<input type="checkbox"/>	§201.6(c)(2)(ii) Assessing Vulnerability: Overview	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>		§201.6(c)(2)(ii) Assessing Vulnerability: Identifying Structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	§201.6(c)(2)(ii) Assessing Vulnerability: Estimating Potential Losses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Legend:

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the plan address the impact of each hazard on the jurisdiction?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

- B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

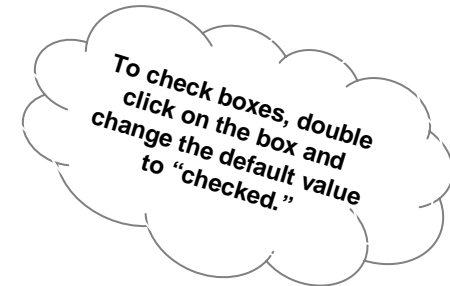
- A. Does the plan estimate potential dollar losses to vulnerable structures?
- B. Does the plan describe the methodology used to prepare the estimate?

Matrix C: Identification and Analysis of Mitigation Actions

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
		N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?